Francesco Cazzaro

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Experience

PhD Student in Artificial Intelligence — **2021 – Present**
Technical University of Catalonia, BarcelonaTech — *Barcelona, Spain*

- PhD in Natural Language Processing supervised by Ariadna Quattoni and Xavier Carreras
- Part of the European Research Council (ERC) INTERACT project
- Areas of focus: Language Models, Compositional Generalization, Semantic Parsing, Natural Language Understanding

Visiting Research Student — **January 2021 – May 2021**
Sapienza University of Rome — *Rome, Italy*

- Worked on Language models for AMR Semantic Parsing under professor Roberto Navigli

Education

Master degree in Computer Engineering — **2018 – 2020**
University of Padua — *Padua, Italy*

- Thesis on transition-based deep neural networks for dependency parsing with advisor professor Giorgio Satta
- Graduated Cum Laude (with honors)
- Relevant courses: Machine Learning, Big Data Computing, Automata Languages and Computation, Computer Vision

Semester abroad — **September 2019 – February 2020**
Charles University — *Prague, Czech Republic*

- Relevant courses: Artificial Intelligence, Fundamentals of Speech Recognition and Generation, Information Retrieval

Bachelor degree in Information Engineering — **2015 – 2018**
University of Padua — *Padua, Italy*

- Thesis on algorithms for community detection on graph networks
- Relevant courses: Data structures and algorithms, Algorithms for Engineering, Statistical Data Analysis

Conference Papers

- César González-Gutiérrez, Audi Primadhanty, **Francesco Cazzaro** and Ariadna Quattoni. "Analyzing Text Representations under Tight Annotation Budgets: Measuring Structural Alignment". *61th Annual Meeting of the Association for Computational Linguistics (ACL 2023).*

- **Francesco Cazzaro**, Davide Locatelli, Ariadna Quattoni and Xavier Carreras. "Translate First Reorder Later: Leveraging Monotonicity in Semantic Parsing". *Findings of the 2023 Conference of the European Chapter of the Association for Computational Linguistics (EACL 2023).*

Workshop Papers

- **Francesco Cazzaro**, Ariadna Quattoni and Xavier Carreras. "Are Deep Sequence Classifiers Good at Non-Trivial Generalization?". *Workshop on Robustness in Sequence Modeling, 36th Conference on Neural Information Processing Systems (NeurIPS 2022).*

Teaching

Teaching Assistant — **2023**
University of Padua — *Padua, Italy*

- Master course "Natural Language Processing" held by professor Giorgio Satta

Teaching Assistant — **2021**
University of Padua — *Padua, Italy*

- Master course "Automata, Languages and Computation" held by professor Giorgio Satta

Skills

Technologies: Python, PyTorch, HuggingFace, Java, Matlab, C++, LaTeX, Git and Linux
Expertise: Natural Language Processing, Deep Learning, Machine Learning, Language Models
Languages: Italian (native), English (fluent), Spanish (intermediate)
Others: 2021 Lisbon Machine Learning school, Reviewer (*ACL, EMNLP, . . .), top 4% at 2018 Google Hash Code